

Next Generations Sequencing in Clinical Microbiology and Public Health Laboratories: Opportunities and Challenges

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Clinical microbiology and public health laboratories are beginning to utilize next-generation sequencing (NGS) for a range of applications, including whole genome sequencing, microbiome analysis/ metagenomics, transcriptome profiling, infectious disease diagnosis, pathogen discovery, and public health surveillance. This intermediate level webinar will review NGS technologies, applications, and recent success stories. The challenges associated with implementation of NGS in the clinical and public health laboratory will also be discussed, including considerations for NGS test validation, quality control procedures, proficiency testing, and reference materials.

Sponsored by the National Laboratory Training Network (NLTN)

The National Laboratory Training Network is a Training System Sponsored by the Association of Public Health Laboratories (APHL) and The Centers for Disease Control and Prevention (CDC) www.aphl.org/training/nltn

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FREE WEBINAR

REGISTRATION DEADLINE IS OCTOBER 28, 2015

- Locate the course online under Live Webinars at www.cdc.gov/labtraining.
- Follow the link to register for the course in TRAIN.
- Registration deadline is one week prior to each of the webinar.
- Once you have registered, you will receive a detailed confirmation letter by email.
- This webinar will be archived on TRAIN approximately 3 weeks after the live event.
- This webinar has 1000 seats available on a first come first served basis.
- If you have difficulty with the online registration process, please email labtraining@cdc.gov.

CEUs:

The Centers for Disease Control and Prevention, Laboratory Training and Services Branch, is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program.

This webinar is approved for 1.0 hour of P.A.C.E.® credit, and has been approved for 1.0 contact hours in the General (Microbiology/ Mycology/ Parasitology) category for Florida Laboratory Licensees.

P.A.C.E.® Course#: 288-020-15, FL Course#: 20-495905.



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Objectives:

At the conclusion of this program, the participant will be able to:

1. Describe current applications of next-generation sequencing in clinical microbiology and public health laboratories.
2. Cite recent success stories that highlight how next-generation sequencing has advanced the field of clinical microbiology and public health.
3. State the challenges of implementing next-generation sequencing in clinical microbiology and public health laboratories.

Target Audience:

This webinar is of interest to public health laboratorians.

Access Requirements

To participate in this webinar, you will need a computer with internet access and speakers or a headphone to hear the audio.

To test your system, visit

https://admin.acrobat.com/common/help/en/support/meeting_test.htm.

Special Needs

Course content is closed captioned where applicable and optimized for a screen reader.